	Application No.	Applicant(s)	٦
	10/698,393	ODA ET AL.	
Notice of Allowability	Examiner	Art Unit	\dashv
	Patrick J. Lee	2878	
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	n this application. If not included nunication will be mailed in due course. THIS	•
1. X This communication is responsive to Amendment filed 7/6/	<u>2005</u> .		
2. The allowed claim(s) is/are 1-27.			
3. \boxtimes The drawings filed on <u>06 July 2005</u> are accepted by the Ex	aminer.		
 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Applicati	on No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to fil ENT of this application.	e a reply complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on he header according to 37 C	the drawings in the front (not the back) of FR 1.121(d).	
7. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the	
Attachment(s)			
1. Notice of References Cited (PTO-892)	5. Notice of I	nformal Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	Summary (PTO-413), ./Mail Date	
3. 🗵 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 0705	18), 7. ☐ Examiner	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner'	s Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other		

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DETAILED ACTION

REASONS FOR ALLOWANCE

1. Claims 1-27 are allowable over the prior art.

2. The following is an examiner's statement of reasons for allowance:

With respect to claims 1 & 16, the combination of teachings of US 5,610,390 to Miyano in view of US 6,777,661 B2 to Summa et al does not disclose nor suggest the microlenses causing the light to be incident on both the first and second photosensitive cells. Miyano discloses that the center (A1) of pixel (12) being shifted from the center (A2) of lens (20). Miyano discloses the lenses (20) to converge light onto openings (14) of pixels (12). Summa et al discloses pixels (20) that comprise a photodiode (30) and a VCCD (40), in which the photodiode (30) and the VCCD (40) have different sensitivities (see column 1, lines 35-48). US 2004/0125226 A1 to Kubo disclose a solid-state image pickup apparatus comprising two photosensitive cells (44, 46) with different sensitivities disposed beneath a microlens (50); however, Kubo does not disclose the shift of the optical center of the microlens from a center of the corresponding photosensor. As a result, independent claims 1 & 16 and dependent claims 2-15 & 17-27 are allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

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3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Patrick J. Lee whose telephone number is (571) 272-

2440. The examiner can normally be reached on Monday through Friday, 8:00 am to

5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David P. Porta can be reached on (571) 272-2444. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

PJL

August 2nd, 2005

Patrick J. Lee Examiner Art Unit 2878

PANTO DODTA

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800